



ID de Contribution: 45

Type: 15+5

On the consistency between CP violation in the K vs. B_d systems within the Standard Model

jeudi 13 janvier 2011 10:40 (20 minutes)

In the K and B_d systems, indirect CP violation is quantified by the parameters ϵ_K and $\sin 2\beta$ respectively. Within the Standard Model, the uniqueness of the CP violating phase implies that the measurement of either between K and $\sin 2\beta$ permits to predict the other. Since both these parameters are very well measured, this turns into a powerful test of consistency. I discuss the status of this test, especially in the light of recent advances on the ϵ_K formula.

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Classification de thématique: Main